

**FLUIDA**  
**EN 14411:2012 Annex G Group Bla UGL**

TECHNICAL FEATURE	TEST METHOD	REQUIRED STANDARDS	FLUIDA
SIZES AND LOOK OF THE TILE	ISO 10545-2	Length and width $\pm 0,6\%/\pm 2.0$ mm Thickness $\pm 5\%/\pm 0.5$ mm Straightness of sides $0,5\%/\pm 1.5$ mm Rectangularity $\pm 0,5\%/\pm 2.0$ mm Surface flatness $\pm 0,5\%/\pm 2.0$ mm Surface quality: 95% of tiles with no defaults	Compliant Compliant Compliant Compliant Compliant
WATER ABSORPTION	ISO 10545-3	$\leq 0.5$ %	0,04 % (average values referred to the last production)
AVERAGE BENDING STRENGTH	ISO 10545-4	35 N/mm <sup>2</sup> min.	40,4 N/mm <sup>2</sup> (average values referred to the last production)
BREAKING STRENGTH	ISO 10545-4	Thickness $\geq 7,5$ mm: 1300 N min.	Compliant
RESISTANCE TO DEEP ABRASION	ISO 10545-6	175 mm <sup>3</sup> max.	Compliant
FROST RESISTANCE	ISO 10545-12	Required	Compliant
CHEMICAL RESISTANCE (DOMESTIC USE AND SWIMMING POOL CHEMICALS)	ISO 10545-13	min. UB	Compliant

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**Sede Legale - Uffici Commerciali:**

41042 Fiorano Modenese (MO) - Italy - Via Cameazzo, 25  
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fax Export Dpt. +39 0536 83.26.11

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R.E.A. Modena n° 252818 - Partita IVA: IT 01927780369

SISTEMI DI  
GESTIONE CERTIFICATI

**CQY**  
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UNI EN ISO 9001:2015  
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UNI ISO 45001:2018

  
Ceramics of Italy

COEFFICIENT OF FRICTION	B.C.R.A. METHOD (D.M. no. 236 of 14/06/1989 of Italian Republic)		Unpolished/Outdoor: DRY: > 0.40 WET: > 0.40
ANTISLIP PROPERTIES	DIN 51130 Metodo DIN EN 16165:2021 Annex B		Unpolished: R10 Outdoor: R11
ANTISLIP PROPERTIES ON WET SURFACES	DIN 51097 Metodo DIN EN 16165:2021 Annex A		Outdoor: A+B
DYNAMIC COEFFICIENT OF FRICTION	DCOF* ANSI A137- 1:2012 ANSI A326.3		Unpolished: WET: $\geq 0.42$ Outdoor: WET: $\geq 0.55$

Valid only for items in 1st. choice.

On request we can certify conformity with standards that are not mentioned hereby

The special trims for the series, apart from those used for stair coverings, do not comply with the ISO EN 14411 standard.

Average values refer to tests which have been made on the unpolished surface if not otherwise specifically indicated.

\* DCOF Test on Half Polished surface available on request.

The series highlighted in red have been tested using the new DIN EN 16165:2021 and ANSI A326.3 methods.

V3: Tiles with moderate shade and aspect variation.

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**GRES PORCELLANATO EN 14411:2012 ALLEGATO G GRUPPO Bia UGL**

**Tutti i materiali Coem appartenenti a questa categoria sono conformi ai requisiti di norma.**  
 All Coem materials in this category comply with statutory requirements.  
 Alle Materialien von Coem, die zu dieser Kategorie gehören, erfüllen die gesetzlichen Voraussetzungen.  
 Tous les matériaux Coem qui appartiennent à cette catégorie sont conformes aux critères normalisés.

CARATTERISTICA TECNICA TECHNICAL FEATURE TECHNISCHE EIGENSCHAFT CARACTERISTIQUE TECHNIQUE	METODO DI PROVA TEST METHOD PRÜFUNGMETHODE METHODE D'ESSAI	REQUISITO NORMA REQUIRED STANDARDS NORMVORGABE VALEUR PRESCRITE SELON LA NORME	gresx2	
 Dimensioni e Aspetto Sizes and look of the tile Abmessungen und Aussehen der Fliese Dimensions et Aspect du carreau	ISO 10545-2	Lunghezza e larghezza / Length and width Länge und Breite / Longueur et largeur Spessore / Thickness / Stärke / Epaisseur Rettilineità spigoli / Straightness of sides / Kantengeradheit Ortogonalità / Rectangularity / Rechtwinkligkeit Angolarità Planarità / Surface flatness / Ebenheit / Planéité	±0,6% / ±2.0 mm ±5% / ±0.5 mm ±0,5% / ±1.5 mm ±0,5% / ±2.0 mm ±0,5% / ±2.0 mm	Conforme Compliant Konform Conforme
		Qualità della superficie: il 95% delle piastrelle esenti da difetti Surface quality: 95% of tiles with no defaults Qualitätsanforderungen für die Oberfläche: 95% der Fliesen ohne Schaden Qualité de la surface: 95% des carreaux sans défauts		
 Assorbimento d'acqua Water absorption Wasseraufnahme Absorption d'eau	ISO 10545-3	≤ 0,5% (Massimo valore singolo - Maximum single value Maximaler Einzelwert - Valeur Individuelle maximale 0,6%)	< 0,2%	
 Resistenza alla flessione media Average bending strength Mittlere Biegefestigkeit Résistance à la flexion moyenne	ISO 10545-4	35 N/mm <sup>2</sup> min. (Valore singolo - Single value - Einzelwert Valeur Individuelle 32 N/mm <sup>2</sup> min.)		Conforme Compliant Konform Conforme
	EN 1339	-		T11*
 Sforzo di rottura Breaking strength Bruchlast Force de rupture	ISO 10545-4	Spessore / Thickness / Stärke / Epaisseur ≥ 7,5 mm: 1300 N min. < 7,5 mm: 700 N min.		10.000 N
 Resistenza all'abrasione profonda Resistance to deep abrasion Tiefenabriebfestigkeit Résistance à l'abrasion profonde	ISO 10545-6	175 mm <sup>2</sup> max.		145 mm <sup>2</sup>
 Resistenza al gelo Frost resistance Frostbeständigkeit Résistance au gel	ISO 10545-12	Richiesta - Required Notwendig - Requisite		Resistente Resistant Widerstandsfähig Résistant
 Resistenza agli agenti chimici (Uso domestico e additivi per piscina) Chemical resistance (Domestic use and swimming pool chemicals) Beständigkeit gegen Chemikalien (Gebrauch im Wohnbereich und Chemikalien für Schwimmbad) Résistance à l'attaque chimique (Usage domestique et additifs pour piscine)	ISO 10545-13	UB min min. UB UB mind min UB		UA Resistente Resistant Widerstandsfähig Résistant

\* Valido solo per i formati quadrati - Valid only for square formats - Gültig nur für die quadratischen Formate - Valable uniquement pour les formats carrés

**VALIDO SOLO PER I PRODOTTI 1° SCELTA**  
 VALID ONLY FOR ITEMS IN 1ST CHOICE - NUR FÜR PRODUKTEN IN 1 SORTE GÜLTIG.  
 VALABLE SEULEMENT POUR LES PRODUITS EN 1ER CHOIX.

**La conformità ad altre norme qui non espressamente citate può essere fornita su richiesta.**  
 On request we can certify conformity with standards that are not mentioned hereby.  
 Die Erfüllung der Anforderungen anderer Normen, die hier nicht erwähnt worden sind, können wir Ihnen auf Anfrage zur Verfügung stellen.  
 La conformité aux autres normes, non citées, ci-dessus peut être fournie sur demande.

**Gli elementi di corredo alle serie, esclusi quelli usati per rivestimento di scale, non rispondono alla normativa ISO EN 14411.**  
 The special trims for the series, apart from those used for stair coverings, do not comply with the ISO EN 14411 standard.  
 Die Formteile der Serie, ausgenommen derjenigen für die Verkleidung von Treppen, entsprechen der Norm ISO EN 14411 nicht.  
 Les pièces coordonnées aux séries ne sont pas conformes à la norme ISO EN 14411, à l'exception de celles qui sont utilisées pour le revêtement des marches.

**Valori medi riferiti alla nostra produzione, secondo test effettuati su superficie naturale se non esplicitamente indicati.**  
 Average values refer to tests which have been made on the unpolished surface if not otherwise specifically indicated.  
 Die Mittelwerte beziehen sich auf Prüfungen, die für das Ausführungen unpoliert, wenn nicht anders deutlich angegeben, durchgeführt worden sind.  
 Valeurs moyens référant à notre production, tests effectués sur base de surface naturel si non autrement spécifié.

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## GRES PORCELLANATO EN 14411:2012 ALLEGATO G GRUPPO BIa UGL

**SERIE COEM CHE RISPONDONO ALLA NORMATIVA EN 14411:2012 ALLEGATO G GRUPPO BIa UGL E LORO CARATTERISTICHE QUALIFICANTI**  
 COEM SERIES THAT COMPLY WITH THE EN 14411:2012 ANNEX G GROUP BIa UGL STANDARD AND THEIR QUALIFYING CHARACTERISTICS  
 COEM-SERIEN, DIE DER NORM EN 14411:2012 ANLAGE G GRUPPE BIa UGL ENTSPRECHEN UND IHRE QUALIFIZIERENDEN EIGENSCHAFTEN  
 SERIES COEM CONFORMES A LA NORME EN 14411:2012 ANNEXE G GROUPE BIa UGL ET LEURS CARACTERISTIQUES DETERMINANTES



SERIE - SERIES SERIE - SERIE	REAZIONE AL FUOCO EN 13823	CARATTERISTICA ANTISDRUCCIOLO METODO DIN 51130 Metodo DIN EN 16165:2021 Annex B *	CARATTERISTICA ANTISDRUCCIOLO SU BAGNATO METODO DIN 51097 Metodo DIN EN 16165:2021 Annex A *	COEFFICIENTE DI ATTRITO METODO B.C.R.A. D.M. 14/06/89 n° 236 par. 8.2.2
. FLUIDA_	A1fl-A1 (nessuna reazione*)	Esterno: R11	Esterno A + B	DRY: > 0,40 WET: > 0,40

\* **Le serie evidenziate in rosso sono state testate con i nuovi metodi DIN EN 16165:2021 e ANSI A326.3.**

The series highlighted in red have been tested using the new DIN EN 16165:2021 and ANSI A326.3 methods.  
 Les séries mises en évidence en rouge ont été testées avec les nouvelles méthodes DIN EN 16165:2021 et ANSI A326.3.  
 Die rot hervorgehobenen Serien wurden mit den neuen Methoden nach DIN EN 16165:2021 und ANSI A326.3 getestet.

\* **Nessuna reazione** - No reaction - Keine reaktion - Aucune réaction

**I valori di resistenza allo scivolamento, coefficiente di attrito statico o dinamico, riportati sul catalogo sono da ritenersi puramente indicativi e non vincolanti.**

Ogni eventuale specifica necessità dovrà essere da noi confermata al momento dell'ordine e comunque sempre prima della posa.  
 The slip resistance values, static or dynamic coefficient of friction indicated in the catalogue are purely indicative and are not binding.  
 Any specific needs must be confirmed by us at the time of order and in any case before laying.  
 Die Rutschhemmungswerte sowie der statische und dynamische Reibungskoeffizient, die im Katalog genannt sind, sind reine Richtwerte und nicht bindend.  
 Für alle diesbezüglichen Anforderungen muss bei der Bestellung und in jedem Fall vor dem Verlegen um Bestätigung angefragt werden.  
 Les valeurs de résistance au glissement, coefficient de frottement statique ou dynamique indiquées dans le catalogue doivent être considérées comme étant purement indicatives et non contraignantes. Nous devons confirmer chaque éventuelle nécessité spécifique au moment de la commande et, dans tous les cas, toujours avant la pose.

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## PRODUCT COMPLIANT WITH LEED® REQUIREMENTS (LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN)

LEED® is a voluntary certification programme that can be applied to any building (commercial or residential) and covers the entire life cycle of the building, from design to construction. LEED® promotes a sustainability-oriented approach by recognising the performance of buildings in key areas such as energy and water savings, reduction of CO<sub>2</sub> emissions, improvement of ecological quality of interiors, materials and resources

used, design and site selection. Developed by the U.S. Green Building Council (USGBC), the system is based on awarding 'credits' for each requirement. The sum of the credits determines the four certification levels: basic, gold, silver, and platinum. LEED® certification is rapidly becoming the new global standard for eco-friendly buildings (it is now applied in 40 different countries). Coem is a member of the U.S. Green Building Council (USGBC), a US organisation that implements and governs the construction of sustainable buildings through LEED® (Leadership in Energy and Environmental Design) certification. Due to their technical and structural characteristics, Coem's products can contribute to a building's LEED® score. As a result, they have

been certified by the external body, CERTIQUALITY. For example, the Coem products can meet LEED® requirements due to their high content of recycled materials and have obtained the industry's Environmental Product Declaration (EPD), which provides environmental data on the life cycle of products in compliance with the international ISO 14025 standard, according to the LEED® requirements. The light refraction index of the

porcelain stoneware substrate ensures maximum thermal insulation and excellent energy performance. The Coem products have a high Solar Reflectance Index (SRI), which varies based on the type of colour and use, and can help reduce the heat island effect (i.e. differences in temperature between urban and suburban areas), and consequently reduces the effects on the microclimate and human and wildlife habitats.

The Coem products are hygienic and easy to clean, contributing to the improvement of the quality and safety of indoor environments. Furthermore, their eco-sustainable features do not compromise their aesthetic value, as porcelain stoneware is always at the forefront of design and technological innovation.

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REQUISITES	Credits
OUTDOOR PAVING SR > 33	1 point
LOW SLOPE ROOFS SRI > 82	1 point
HIGH SLOPE ROOFS SRI > 39	1 point

Materials and resources – Declaration and optimisation of construction products  
 Ceramiche Coem products can help improve LEED® rating in terms of materials and resources.

REQUISITES	Credits
SECTOR EPD	1/2 points
ORIGIN OF RAW MATERIALS – RECYCLED CONTENT	1 point
COMPONENTS – END PRODUCTS AND MATERIALS THAT DO NOT CONTAIN SUBSTANCES CLASSIFIED AS OF VERY HIGH CONCERN ACCORDING TO REACH CRITERIA	1 point

Low-emission materials  
 Ceramiche Coem products do not emit VOC (Volatile Organic Compounds).

REQUISITES	Credits
PRODUCTS THAT DO NOT CONTAIN VOC	1 point

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